

Operating Instructions

	SDI Input Unit		HDMI Output Unit
Model No.	AV-UHS5M1G	Model No.	AV-UHS5M4G
	SDI Output Unit		4K DVE Unit
Model No.	AV-UHS5M2G	Model No.	AV-UHS5M5G
	HDMI Input Unit		NDI I/F Unit
Model No.	AV-UHS5M3G	Model No.	AV-UHS5M6G

HDMI™

ENGLISH	Before using this product, be sure to read “Read this first!” (pages 3 to 7).
FRANÇAIS	Avant d'installer et d'utiliser cet appareil, s'assurer de lire la section « Lire ces informations en premier ! » (pages 8 et 9). Pour de plus amples informations, visiter le site Web de Panasonic (https://pro-av.panasonic.net/manual/en/index.html) et consulter le mode d'emploi et les instructions d'installation.
ESPAÑOL	Antes de instalar y usar este producto, asegúrese de leer “Lea esto primero!” (páginas 10 y 11). Si desea obtener más información, visite el sitio web de Panasonic (https://pro-av.panasonic.net/manual/en/index.html) y consulte las instrucciones de funcionamiento y las instrucciones de instalación.
DEUTSCH	Bitte lesen Sie sorgfältig „Bitte lesen Sie zuerst diesen Hinweis!“ vor der Installation und Nutzung dieses Produkts. (Seite 12 und 13). Weitere Informationen finden Sie auf der Panasonic-Webseite (https://pro-av.panasonic.net/manual/en/index.html), in der Bedienungsanleitung und in der Installationsanleitung.
ITALIANO	Prima di installare e utilizzare il prodotto, assicurarsi di leggere “Leggere prima quanto segue!” (pagina 14 e 15). Per maggiori informazioni, visitare il sito Web Panasonic (https://pro-av.panasonic.net/manual/en/index.html) e fare riferimento alle istruzioni per l'uso e alle istruzioni per l'installazione.
РУССКИЙ	Перед установкой и использованием данного изделия ознакомьтесь с информацией в разделе «Прочитайте нижеследующее до начала эксплуатации!» (стр. 16). Для получения дополнительной информации посетите веб-сайт Panasonic (https://pro-av.panasonic.net/manual/en/index.html) и обратитесь к инструкции по эксплуатации и инструкции по установке.

Before operating this product, please read the instructions carefully and save this manual for future use.

ENGLISH

Български	Посетете следния уебсайт относно информация за безопасността и важни уведомления за продукта.	Latviešu	Lai iegūtu informāciju par drošību un skatītu svarīgus paziņojumus par šo produktu, apmeklējiet tālāk norādīto tīmekļa vietni.
Hrvatski	Za sigurnosne informacije i važne obavijesti o proizvodu posjetite sljedeću internetsku stranicu.	Lietuvių	Je i reikia saugos informacijos ir svarbių pranešimų apie gaminį, apsilankykite toliau nurodytoje svetainėje.
Čeština	Na následujícím webu najdete bezpečnostní informace a důležité poznámky k tomuto produktu.	Polski	Informacje o bezpieczeństwie i ważne informacje o produkcie znajdują się w poniższej witrynie internetowej.
Dansk	Besøg følgende webside for sikkerhedsinformation og vigtige bemærkninger vedrørende produktet.	Português	Consulte o seguinte website para as informações de segurança e importantes notificações sobre o produto.
Nederlands	Ga naar de volgende website voor veiligheidsinformatie en belangrijke meldingen over het product.	Română	Vizitați următoarea pagină web pentru informații de securitate și notificări importante cu privire la produs.
Eesti	Toodet puudutava ohutusteabe ja oluliste märkuste saamiseks külastage järgmist veebilehte.	Slovensky	Pre bezpečnostné informácie a dôležité oznámenia súvisiace s produktom navštívte túto webovú stránku.
Suomi	Käy seuraavalla verkkosivulla saadaksesi turvallisuustietoja ja tärkeitä tietoja liittyen laitteeseen.	Slovenščina	Za varnostne informacije in pomembna obvestila v zvezi z izdelkom obiščite naslednje spletno mesto.
Ελληνικά	Για πληροφορίες σχετικά με θέματα ασφάλειας και σημαντικές ειδοποιήσεις που αφορούν το προϊόν σας, επισκεφτείτε τον ιστότοπο που ακολουθεί.	Svenska	Besök följande webbplats för säkerhetsinformation och viktiga meddelanden om produkten.
Magyar	A termékkel kapcsolatos biztonsági információkért és fontos értesítésekért látogasson el az alábbi weboldalra.	العربية	زر موقع الويب التالي لمعرفة أحدث معلومات السلامة والإخطارات الهامة بشأن المنتج.

<https://pro-av.panasonic.net/manual/en/index.html>

Read this first!



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- To reduce the risk of fire or electric shock, keep this equipment away from all liquids. Use and store only in locations which are not exposed to the risk of dripping or splashing liquids, and do not place any liquid containers on top of the equipment.

CAUTION:

To reduce the risk of fire or electric shock and annoying interference, use the recommended accessories only.

CAUTION:

To reduce the risk of fire or shock hazard, refer changes of switch settings inside the unit to qualified service personnel.

 indicates safety information.

Read this first!

FCC NOTICE (USA)

Supplier's Declaration of Conformity

Model Number: AV-UHS5M1G/AV-UHS5M2G/AV-UHS5M3G/AV-UHS5M4G/
AV-UHS5M5G/AV-UHS5M6G

Trade Name: Panasonic

Responsible Party: Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102

Support contact: 1-800-524-1448

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Note:

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cables when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

NOTIFICATION (Canada)

CAN ICES-003 (A)/NMB-003(A)

 indicates safety information.

Read this first!

CAUTION:

- Do not touch this product with wet hands.
- Do not drop this product or subject it to strong shock.
- Avoid touching the product components and board pattern. (Follow these precautions to protect against damage from electrostatic shock.)

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Read this first!



Disposal of Old Equipment

Only for European Union and countries with recycling systems

This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority, dealer or supplier.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

The symbols on this product represent the following:

== DC

Manufactured by:

Panasonic Entertainment & Communication Co., Ltd.
1-10-12, Yagumo-higashi-machi, Moriguchi City, Osaka, Japan

Importer:

Panasonic Connect Europe GmbH
Hagenauer Strasse 43, 65203 Wiesbaden, Germany

Authorized Representative in EU:

Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

Importer for UK:

Panasonic Connect UK,
a branch of Panasonic Connect Europe GmbH,
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

**UK
CA**

Read this first!

ІНФОРМАЦІЯ ПРО ПІДТВЕРДЖЕННЯ ВІДПОВІДНОСТІ ПРОДУКТУ

Виробник:	Panasonic Entertainment & Communication Co., Ltd.	Панасонік Ентертейнмент енд Коммюнікейшн Ко., Лтд.
Адреса виробника:	Moriguchi, Osaka, Japan	Моріґучі Осака Японія
Країна походження:	Japan	Японія

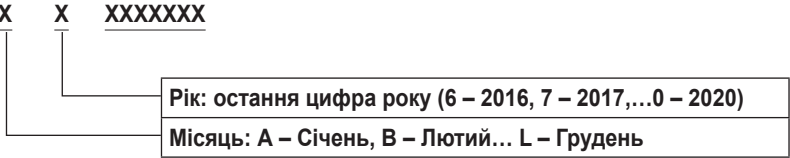
Імпортёр:	ТОВ “ПАНАСОНІК УКРАЇНА ЛТД”
Адреса Імпортёра:	вул. Васильківська, буд. 30, м. Київ 03022, Україна

Примітки:

Термін служби виробу	7 років
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Дату виготовлення можна визначити за комбінацією букв і цифр серійного номера, що розташований на маркувальній табличці виробу.

Приклад: X X XXXXXXXX



Lire ces informations en premier !



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



ATTENTION: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, LE COUVERCLE (OU LE PANNEAU ARRIÈRE) NE DOIT JAMAIS ÊTRE DÉMONTÉ.
AUCUNE PIÈCE DESTINÉE À L'UTILISATEUR NE SE TROUVE À L'INTÉRIEUR DE L'APPAREIL.
CONFIER LES RÉGLAGES ET LES RÉPARATIONS À UN DEPAN-NEUR PROFESSIONNEL.



L'éclair à extrémité fléchée placé dans un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur la présence d'une "tension potentiellement dangereuse" et non isolée se trouvant dans les limites du coffret de l'appareil dont la puissance est suffisante pour constituer un risque important d'électrocution.



Le point d'exclamation placé dans un triangle équilatéral sert à attirer l'attention de l'utilisateur sur des instructions de fonctionnement et d'entretien (de dépannage) à caractère important dans la brochure qui accompagne l'appareil.

AVERTISSEMENT:

- Pour réduire les risques d'incendie ou de choc électrique, évitez d'exposer cet appareil à la pluie ou à l'humidité.
- Pour réduire tout risque de feu ou de choc électrique, éloigner l'appareil des liquides — utiliser et ranger uniquement dans un endroit ne risquant pas de recevoir des gouttes ou d'être aspergé de liquides, et ne pas mettre de récipient renfermant des liquides sur le dessus de l'appareil.

ATTENTION:

Pour éviter tout risque d'incendie, de chocs électriques ou d'interférences, n'utiliser que les accessoires recommandés.

ATTENTION:

Pour éviter tout risque de feu ou de choc électrique, confier le réglage du commutateur à l'intérieur de l'appareil à un personnel d'entretien qualifié.

 Informations concernant la sécurité.

Lire ces informations en premier !

ATTENTION:

- Ne touchez pas ce produit avec les mains mouillées.
- Ne faites pas tomber ce produit et ne le soumettez pas à des chocs.
- Evitez de toucher les composants du produit et la carte. (Suivez ces précautions pour empêcher tout dommage dû à un choc électrostatique.)



L'élimination des équipements usagés

Applicable uniquement dans les pays membres de l'Union européenne et les pays disposant de systèmes de recyclage.

Apposé sur le produit lui-même, sur son emballage, ou figurant dans la documentation qui l'accompagne, ce pictogramme indique que les appareils électriques et électroniques usagés, doivent être séparés des ordures ménagères.

Afin de permettre le traitement, la valorisation et le recyclage adéquats des appareils usagés, veuillez les porter à l'un des points de collecte prévus, conformément à la législation nationale en vigueur.

En les éliminant conformément à la réglementation en vigueur, vous contribuez à éviter le gaspillage de ressources précieuses ainsi qu'à protéger la santé humaine et l'environnement.

Pour de plus amples renseignements sur la collecte et le recyclage, veuillez vous renseigner auprès des collectivités locales, votre revendeur ou fournisseur.

Le non-respect de la réglementation relative à l'élimination des déchets est passible d'une peine d'amende.

Les symboles présents sur ce produit signifient les choses suivantes:

== CC

Fabriqué par:

Panasonic Entertainment & Communication Co., Ltd.
1-10-12, Yagumo-higashi-machi, ville de Moriguchi, Osaka, Japon

Importateur :

Panasonic Connect Europe GmbH
Hagenauer Strasse 43, 65203 Wiesbaden, Allemagne

Représentant autorisé dans l'UE :

Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hambourg, Allemagne

Lea esto primero!



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



ATENCIÓN: PARA REDUCIR EL RIESGO DE SACUDIDAS ELÉCTRICAS, NO quite la tapa superior (ni trasera).
NO HAY NINGUNA PIEZA SUSCEPTIBLE A MANTENIMIENTO POR EL USUARIO. SOLICITE LOS SERVICIOS TÉCNICOS A PERSONAL CUALIFICADO.



El símbolo del relámpago con cabeza de flecha, dentro de un triángulo equilátero, tiene la función de llamar la atención del usuario a la presencia de "tensión peligrosa" no aislada dentro de la caja del producto que puede ser de intensidad suficiente para constituir un riesgo de sacudidas eléctricas a las personas.



El símbolo del punto de exclamación dentro de un triángulo equilátero tiene la función de llamar la atención del usuario a la presencia de importantes instrucciones de mantenimiento (servicio) en la literatura que acompaña el equipo.

ADVERTENCIA:

- Para reducir el riesgo de producir un incendio o recibir una descarga eléctrica, no exponga este equipo a la lluvia ni a la humedad.
- Para reducir el riesgo de incendio o sacudida eléctrica, mantenga este equipo alejado de todos los líquidos. Utilícelo y guárdelo solamente en lugares donde no corra el riesgo de que le caigan gotas o le salpiquen líquidos, y no coloque ningún recipiente de líquidos encima del equipo.

AVISO:

Para reducir el riesgo de incendios, sacudidas eléctricas e interferencias molestas, utilice solamente los accesorios recomendados.

AVISO:

Para reducir el riesgo de incendios o sacudidas eléctricas, solicite al personal de servicio calificado que le haga el cambio de ajuste de los conmutadores del interior del aparato.

 indica información de seguridad.

Lea esto primero!

PRECAUCIÓN:

- No toque este producto con las manos húmedas.
- No lo deje caer ni lo exponga a golpes fuertes.
- Evite tocar los componentes de este producto o los circuitos de la placa. (Siga estas precauciones como protección contra daños por descarga electrostática.)



Eliminación de Aparatos Viejos

Solamente para la Unión Europea y países con sistemas de reciclado.

Este símbolo en los productos, su embalaje o en los documentos que los acompañen significa que los productos eléctricos y electrónicos usadas no deben mezclarse con los residuos domésticos.

Para el adecuado tratamiento, recuperación y reciclaje de los productos viejos llévelos a los puntos de recogida de acuerdo con su legislación nacional.

Si los elimina correctamente ayudará a preservar valiosos recursos y evitará potenciales efectos negativos sobre la salud de las personas y sobre el medio ambiente.

Para más información sobre la recogida o reciclaje, por favor contacte con su ayuntamiento, su distribuidor o su proveedor.

Puede haber sanciones por una incorrecta eliminación de este residuo, de acuerdo con la legislación nacional.

Los símbolos en este producto representan lo siguiente:

== CC

Fabricado por:

Panasonic Entertainment & Communication Co., Ltd.
1-10-12, Yagumo-higashi-machi, Ciudad de Moriguchi, Osaka, Japón

Importador:

Panasonic Connect Europe GmbH
Hagenauer Strasse 43, 65203 Wiesbaden, Alemania

Representante Autorizado para la UE:

Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburgo, Alemania

Bitte lesen Sie zuerst diesen Hinweis!

WARNUNG:

- Zur Reduzierung der Gefahr von Brand und elektrischem Schlag dieses Gerät weder Nässe noch Feuchtigkeit aussetzen.
- Um Brand- oder Stromschlaggefahr zu reduzieren, muss dieses Gerät von allen Flüssigkeiten ferngehalten werden. Vermeiden sie Gebrauch und Lagerung des Gerätes an Orten, an denen die Gefahr besteht, dass es mit Flüssigkeiten betropft oder bespritzt wird, und stellen sie keine Flüssigkeitsbehälter auf das Gerät.

VORSICHT:

Nur das empfohlene Zubehör verwenden, um die Gefahr von Feuer und elektrischem Schlag sowie Störungen auszuschalten.

VORSICHT:

Um die gefahr von feuer und elektrischem schlag auszuschalten, sind änderungen von schaltereinstellungen im geräteinneren ausschliesslich autorisiertem kundendienst-personal zu überlassen.

 ist die Sicherheitsinformation.

Bitte lesen Sie zuerst diesen Hinweis!

ACHTUNG:

- **Berühren Sie dieses Produkt nicht mit nassen Händen.**
- **Lassen Sie dieses Produkt nicht fallen und setzen Sie es keinen Stößen aus.**
- **Vermeiden Sie die Berührung der Bauteile und Karten des Produktes. (Folgen Sie diesen Sicherheitshinweisen um vor Schäden durch elektrostatische Ladung vorzubeugen.)**



Entsorgung von Altgeräten

Nur für die Europäische Union und Länder mit Recyclingsystemen

Dieses Symbol, auf den Produkten, der Verpackung und/oder den Begleitdokumenten, bedeutet, dass gebrauchte elektrische und elektronische Produkte nicht in den allgemeinen Hausmüll gegeben werden dürfen.

Bitte führen Sie alte Produkte zur Behandlung, Aufarbeitung bzw. zum Recycling gemäß den gesetzlichen Bestimmungen den zuständigen Sammelpunkten zu.

Indem Sie diese Produkte ordnungsgemäß entsorgen, helfen Sie dabei, wertvolle Ressourcen zu schützen und eventuelle negative Auswirkungen auf die menschliche Gesundheit und die Umwelt zu vermeiden.

Für mehr Informationen zu Sammlung und Recycling, wenden Sie sich bitte an Ihren örtlichen Abfallentsorgungsdienstleister, Händler oder Zulieferer.

Gemäß Landesvorschriften können wegen nicht ordnungsgemäßer Entsorgung dieses Abfalls Strafgeelder verhängt werden.

Die Symbole an diesem Produkt haben die folgenden Bedeutungen:

--- Gleichstrom

Hergestellt von:

Panasonic Entertainment & Communication Co., Ltd.
1-10-12, Yagumo-higashi-machi, Moriguchi City, Osaka, Japan

Importeur:

Panasonic Connect Europe GmbH
Hagenauer Strasse 43, 65203 Wiesbaden, Deutschland

Vertretungsberechtigter in der EU:

Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Deutschland

Leggere prima quanto segue!

AVVISO:

- Per ridurre il rischio d'incendio o di scosse, non esporre questo prodotto alla pioggia o all'umidità.
- Per ridurre il rischio d'incendio o di scosse elettriche, tenere questo prodotto lontano da tutti i liquidi. Usarlo e conservarlo soltanto in luoghi che non siano esposti a gocciolamenti o spruzzi di liquidi, e non mettervi sopra recipienti di liquidi.

PRECAUZIONE:

Per ridurre i pericoli d'incendio o di scosse elettriche e di fastidiose interferenze, usare soltanto gli accessori raccomandati.

PRECAUZIONE:

Per ridurre i pericoli d'incendio o di scosse elettriche, il cambiamento della regolazione dell'interruttore all'interno dell'apparecchio deve essere effettuato da personale tecnico qualificato.

 sono le informazioni sulla sicurezza.

Leggere prima quanto segue!

ATTENZIONE:

- Non toccare questo prodotto con le mani umide.
- Non far cadere il prodotto né sottoporlo a forti urti.
- Evitare di toccare i componenti e lo schema della scheda del prodotto. (Seguire queste precauzioni per proteggersi da danni derivanti da choc elettrostatico.)



Smaltimento di vecchie apparecchiature

Solo per Unione Europea e Nazioni con sistemi di raccolta e smaltimento

Questo simbolo sui prodotti, sull'imballaggio e/o sulle documentazioni o manuali accompagnanti i prodotti indica che i prodotti elettrici, elettronici non devono essere smaltiti come rifiuti urbani ma deve essere effettuata una raccolta separata.

Per un trattamento adeguato, recupero e riciclaggio di vecchi prodotti vi invitiamo a portarli negli appositi punti di raccolta secondo la legislazione vigente nel vostro paese.

Con uno smaltimento corretto, contribuirete a salvare importanti risorse e ad evitare i potenziali effetti negativi sulla salute umana e sull'ambiente.

Per ulteriori informazioni su raccolta e riciclaggio, vi invitiamo a contattare il vostro comune, rivenditore o fornitore.

Lo smaltimento non corretto di questi rifiuti potrebbe comportare sanzioni in accordo con la legislazione nazionale.

I simboli su questo prodotto rappresentano quanto segue:

== DC

Fabbricato da:

Panasonic Entertainment & Communication Co., Ltd.
1-10-12, Yagumo-higashi-machi, Città di Moriguchi, Osaka, Giappone

Importatore:

Panasonic Connect Europe GmbH
Hagenauer Strasse 43, 65203 Wiesbaden, Germania

Rappresentante autorizzato nell'UE:

Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsberggring 15, 22525 Amburgo, Germania

Прочитайте нижеследующее до начала эксплуатации!

ВНИМАНИЕ:

- Для снижения риска возникновения пожара или удара электрическим током не подвергайте данное оборудование воздействию дождя или влаги.
- Для снижения риска возникновения пожара или удара электрическим током держите данное оборудование подальше от любых жидкостей. Используйте и храните его только в местах, где оно не будет подвергаться риску попадания капель или брызг жидкости и не помещайте емкостей с жидкостью на оборудование.

ОСТОРОЖНО:

Для снижения риска возникновения пожара или удара электрическим током и возникновения помех используйте только рекомендуемые дополнительные принадлежности.

ОСТОРОЖНО:

Для снижения риска возникновения пожара или удара электрическим током изменения настроек переключателей внутри устройства должны выполняться квалифицированным ремонтным персоналом.

 Данный знак обозначает информацию, относящуюся к технике безопасности.

МЕРЫ ПРЕДОСТОРОЖНОСТИ:

- Не касайтесь устройства мокрыми руками.
- Не роняйте устройство и не подвергайте его сильным ударам.
- Не касайтесь компонентов или схем на плате устройства. (Следуйте инструкциям во избежание повреждения устройства из-за воздействия статического электричества.)

Символы на данном изделии означают следующее:

 Постоянный ток

Trademarks and registered trademarks

- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
- NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.

Abbreviations

Furthermore, the product numbers of equipment are referred to as follows.

Model number of unit	Model number given in manual
AV-UHS500P	AV-UHS500
AV-UHS500E	AV-UHS500
AV-UHS5M1G	AV-UHS5M1
AV-UHS5M2G	AV-UHS5M2
AV-UHS5M3G	AV-UHS5M3
AV-UHS5M4G	AV-UHS5M4
AV-UHS5M5G	AV-UHS5M5
AV-UHS5M6G	AV-UHS5M6

Illustrations and screen displays featured in the manual

- What is shown in the manual's illustrations and screen displays may differ from how it is actually appears.

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Precautions for use

- **Handle carefully.**

Do not drop the product, or subject it to strong shock or vibration.

- **Use the product in an ambient temperature of 0 °C to 40 °C (32 °F to 104 °F).**

Avoid using the product at a cold place below 0 °C (32 °F) or at a hot place above 40 °C (104 °F) because extremely low or high temperature will adversely affect the parts inside.

- **Power off before connecting or disconnecting cables.**

Before plugging or unplugging the cables, be sure to switch power off.

- **Avoid humidity and dust.**

Avoid using the product at a humid, dusty place because much humidity and dust will cause damage to the parts inside.

- **When the product is to be discarded**

When the product is to be discarded at the end of its service life, ask a specialized contractor to dispose of it properly in order to protect the environment.

Introduction

AV-UHS5M1 SDI Input Unit

Installing this unit in a AV-UHS500 live switcher enables support for four 12G-SDI inputs.

Furthermore, the four SDI inputs are each equipped with the following functions:

- Up-converter that converts HD format signals to 4K format signals
- Color correction function
- Frame synchronizer function

AV-UHS5M2 SDI Output Unit

Installing this unit in a AV-UHS500 live switcher enables support for four 12G-SDI outputs.

Furthermore, the four SDI outputs are each equipped with the following functions:

- Down-converter that converts 4K format signals to HD format signals

AV-UHS5M3 HDMI Input Unit

Installing this unit in a AV-UHS500 live switcher enables support for three HDMI inputs.

Furthermore, the three HDMI inputs are each equipped with a scaler function.

AV-UHS5M4 HDMI Output Unit

Installing this unit in a AV-UHS500 live switcher enables support for three HDMI outputs.

Furthermore, the three HDMI outputs are each equipped with a scaler function.

AV-UHS5M5 4K DVE Unit

Installing this unit in a AV-UHS500 live switcher enables support for the following DVE function scalability when in 4K mode:

- DVE function scalability for background transitions
- DVE function scalability for key transitions

Introduction

AV-UHS5M6 NDI I/F Unit

Installing this unit in a AV-UHS500 live switcher enables support for input/output with NewTek, Inc.'s High Bandwidth NDI®* (NDI hereunder) and NDI®|HX* (NDI|HX hereunder).

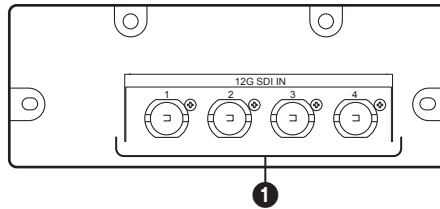
- When system format is 4K: 1 NDI input, 1 NDI output
- When system format is 2K: Maximum of 4 inputs for NDI or NDI | HX, maximum of 2 outputs for NDI

* In this instance, NDI® is used to indicate low latency with high bandwidth NDI®, NDI®|HX is used to indicate high efficiency low bandwidth NDI®|HX.

NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow.

Name of each part

AV-UHS5M1 SDI Input Unit



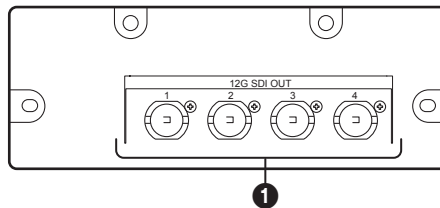
① SDI input connectors [12G SDI IN 1 to 4]

SDI signal input

When connected to option slot A: IN-A1 to 4

When connected to option slot B: IN-B1 to 4

AV-UHS5M2 SDI Output Unit



① SDI output connectors [12G SDI OUT 1 to 4]

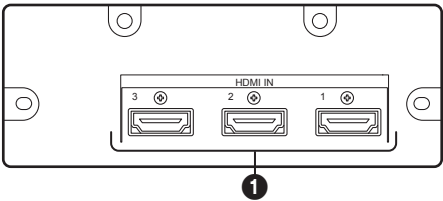
SDI signal output

When connected to option slot A: OUT-A1 to 4

When connected to option slot B: OUT-B1 to 4

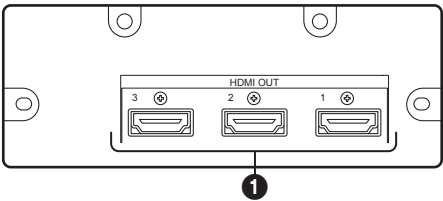
Name of each part

AV-UHS5M3 HDMI Input Unit



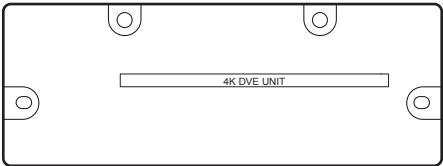
- 1 HDMI input connectors [HDMI IN 1 to 3]
HDMI signal input
When connected to option slot A: IN-A1 to 3
When connected to option slot B: IN-B1 to 3

AV-UHS5M4 HDMI Output Unit



- 1 HDMI output connectors [HDMI OUT 1 to 3]
HDMI signal output
When connected to option slot A: OUT-A1 to 3
When connected to option slot B: OUT-B1 to 3

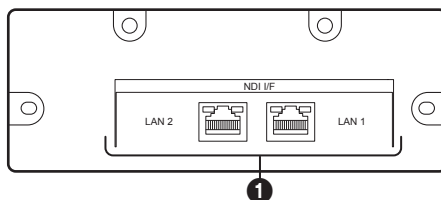
AV-UHS5M5 4K DVE Unit



No external interface

Name of each part

AV-UHS5M6 NDI I/F Unit



① NDI/NDI|HX input/output connectors [LAN 1, LAN 2]

NDI/NDI|HX input/output signals

When connected to option slot A: IN-A1/OUT-A1*1, IN-A1 to 4/OUT-A1 and 2*2

When connected to option slot B: IN-B1/OUT-B1*1, IN-B1 to 4/OUT-B1 and 2*2

*1 When the system format on the AV-UHS500 live switcher is 4K

*2 When the system format on the AV-UHS500 live switcher is 2K

- Use a CAT5e or better, STP (Shielded Twisted Pair) LAN cable, maximum 100 m.

Mounting

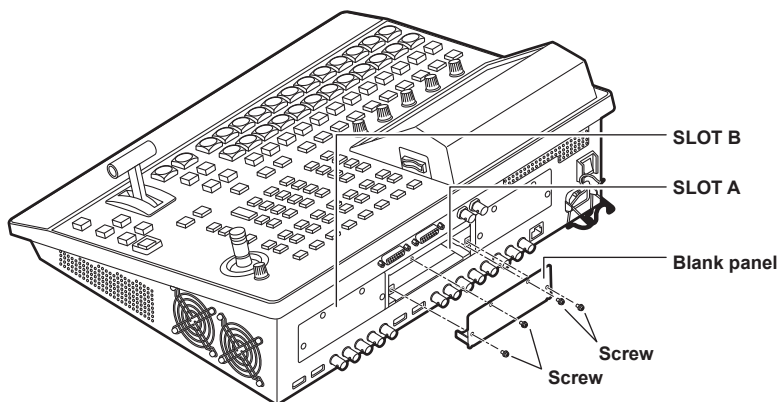
Install this unit in a AV-UHS500 live switcher.

<Notes>

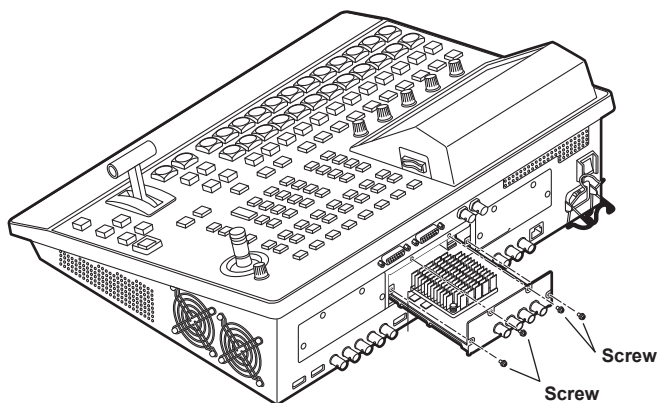
- Be sure to ask the store or dealer where you purchased the product for assistance with mounting and removal.
- Set to OFF and unplug the power connector before mounting and removal.
- Before handling this unit, touch a metal part of the AV-UHS500 to discharge the static electricity from the human body. An anti-static wrist strap is recommended for safety. Failures may be caused if you touch this unit while you are still charged with static electricity.
- Before installing this unit, keep the metal parts of this board free of contact with other metal parts.
- Be sure to mount the blank panel installed with the AV-UHS500, after removing this unit.
- When installing or removing this unit, take care not to hurt yourself on the edges and metal parts of the units.

Mounting

- ① Turn off the power of the AV-UHS500, and unplug the power cord.
- ② Loosen the four screws of SLOT A or SLOT B on the input side at the rear of the AV-UHS500, and remove the blank panel.



- ③ Align the unit with the guide rails, and insert it slowly.
Insert it all the way in. Take care not to use force to insert the board because the connectors may be damaged in the process.
- ④ Attach the unit using the four screws.



- ⑤ After connecting the necessary cables, plug in the power cord, and turn on the power.

Mounting

Checking that the unit has been mounted correctly

Turn on the power of the AV-UHS500, and use the menu used to display the statuses of the option units to check that the board has been mounted correctly.

- ① Press the [SYS] button to display the System menu.
- ② Turn [F1] to display the Option sub menu.

<Menu display>

Option	Slot A	Slot B
	SDI-OUT	SDI-IN

When this unit is installed correctly, "SDI-IN/SDI-OUT/HDMI-IN/HDMI-OUT/4K DVE/NDI I/F" is displayed in the relevant [SLOT A]/[SLOT B] item.
When not installed correctly, "None" is displayed in the relevant [SLOT A]/[SLOT B] item.

Refer to the operating instructions for AV-UHS500 (PDF) for other settings and operations.

Removal procedure

Remove this unit by following the procedures for mounting it in reverse.

- When attaching the blank panel, position the panel so that the part with the protrusion is facing down, and then attach it.

Specifications

AV-UHS5M1

Power supply: DC $\equiv$ 12 V
Supplied by AV-UHS500

 indicates safety information.

<SDI IN 1> to <SDI IN 4> terminals	4 lines	
	• Connectors: BNC × 4 • Up-converter fitted. • Color corrector fitted.	
	12G-SDI	12G Serial digital, SMPTE ST 2082-10 standard complied with • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 80 m (when the cable is used)
	3G-SDI	3G Serial digital, SMPTE292 standard complied with (Level-A/Level-B) • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when the cable is used)

Specifications

<SDI IN 1> to <SDI IN 4> terminals	HD-SDI	HD Serial digital, SMPTE292M standard complied with • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when the cable is used)
Power consumption	15 W 1.2 A	
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)	
Ambient operating humidity	10 % to 90 % (no condensation)	
Storage temperature	0 °C to 40 °C (32 °F to 104 °F)	
Storage humidity	10 % to 90 % (no condensation)	
Weight	Approx. 371 g (Approx. 0.82 lbs.)	
Dimensions (W × H × D)	112 × 42 × 167 mm (4-13/32 inches × 1-21/32 inches × 6-9/16 inches) (excluding protrusions)	

AV-UHS5M2

Power supply: DC --- 12 V Supplied by AV-UHS500
--

 indicates safety information.

<SDI OUT 1> to <SDI OUT 4> terminals	4 lines • Connectors: BNC × 4 • Down-converter fitted. • PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.	
	12G-SDI	12G Serial digital, SMPTE ST 2082-10 standard complied with 0.8 V [p-p] (75 Ω)
	3G-SDI	3G Serial digital, SMPTE292 standard complied with (Level-A)
	HD-SDI	HD Serial digital, SMPTE292M standard complied with
Power consumption	15 W 1.2 A	
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)	
Ambient operating humidity	10 % to 90 % (no condensation)	

Specifications

Storage temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage humidity	10 % to 90 % (no condensation)
Weight	Approx. 371 g (Approx. 0.82 lbs.)
Dimensions (W × H × D)	112 × 42 × 167 mm (4-13/32 inches × 1-21/32 inches × 6-9/16 inches) (excluding protrusions)

AV-UHS5M3

Power supply: DC --- 12 V Supplied by AV-UHS500

 indicates safety information.

<HDMI IN 1> to <HDMI IN 3> terminals	3 lines Video format inputs: 720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/59.94 Hz, 1080p/50 Hz, 1080p/29.97 Hz, 1080p/25 Hz, 1080p/24 Hz, 1080p/23.98 Hz, 2160p/59.94 Hz, 2160p/50 Hz, 2160p/29.97 Hz, 2160p/25 Hz, 2160p/24 Hz, 2160p/23.98 Hz • Connectors: HDMI × 3 • Color corrector fitted. • Scaler fitted. • This connector does not support the CPRM technologies.
Power consumption	16 W 1.3 A
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Ambient operating humidity	10 % to 90 % (no condensation)
Storage temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage humidity	10 % to 90 % (no condensation)
Weight	Approx. 353 g (Approx. 0.78 lbs.)
Dimensions (W × H × D)	112 × 42 × 166 mm (4-13/32 inches × 1-21/32 inches × 6-17/32 inches) (excluding protrusions)

Specifications

AV-UHS5M4

Power supply: DC --- 12 V

Supplied by AV-UHS500

 indicates safety information.

<HDMI OUT 1> to <HDMI OUT 3> terminals	3 lines Video format outputs: 720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/59.94 Hz, 1080p/50 Hz, 1080p/29.97 Hz, 1080p/25 Hz, 1080p/24 Hz, 1080p/23.98 Hz, 2160p/59.94 Hz, 2160p/50 Hz, 2160p/29.97 Hz, 2160p/25 Hz, 2160p/24 Hz, 2160p/23.98 Hz • Connectors: HDMI × 3 • PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned. • Scaler fitted.
Power consumption	16 W 1.3 A
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Ambient operating humidity	10 % to 90 % (no condensation)
Storage temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage humidity	10 % to 90 % (no condensation)
Weight	Approx. 353 g (Approx. 0.78 lbs.)
Dimensions (W × H × D)	112 × 42 × 166 mm (4-13/32 inches × 1-21/32 inches × 6-17/32 inches) (excluding protrusions)

AV-UHS5M5

Power supply: DC --- 12 V

Supplied by AV-UHS500

 indicates safety information.

Power consumption	14 W 1.1 A
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)

Specifications

Ambient operating humidity	10 % to 90 % (no condensation)
Storage temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage humidity	10 % to 90 % (no condensation)
Weight	Approx. 345 g (Approx. 0.76 lbs.)
Dimensions (W × H × D)	112 × 42 × 166 mm (4-13/32 inches × 1-21/32 inches × 6-17/32 inches) (excluding protrusions)

AV-UHS5M6

Power supply: DC $\equiv$ 12 V Supplied by AV-UHS500
--

 indicates safety information.

<LAN 1> and <LAN 2> terminals	Specifications	Compatible with 1000Base-T, AUTO-MDIX, 2 lines*1 • Connectors: RJ-45×2, GbE • Cable connections: LAN cable (we recommend CAT5e or better, STP (Shielded Twisted Pair), maximum 100 m)
	Supported formats	High Bandwidth NDI/Low Bandwidth NDI/NDI HX*2
	Input	Maximum 4 lines Possible input formats • When system format is 4K High Bandwidth NDI: 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p • When system format is 2K*2, *3, *4, *5 High Bandwidth NDI: 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p NDI HX: 1920/1080p, 1280/720p*6

Specifications

<LAN 1> and <LAN 2> terminals	Output	Maximum 2 lines Possible output formats • When system format is 4K High Bandwidth NDI: 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p • When system format is 2K*2, *5 High Bandwidth NDI: 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p • PGM, PVW, CLN, ME PGM, AUX1 to 4, MV1 and 2, and Key Out can be allocated to the output.
	Signal processing	4K High Bandwidth NDI: 4:2:0 8bit 2K High Bandwidth NDI: 4:2:2 8bit NDI HX: 4:2:0 8bit
	*1 The two LAN connectors cannot be connected to the same subnet. *2 Support for NDI HX is input only. Only High Bandwidth NDI is supported for output. *3 When the system format is 2K, mixed input of High Bandwidth NDI and NDI HX is possible. *4 P/I conversion is possible for input when the system format is 2K. *5 Not available when the system format is Psf. *6 The frame rate for NDI HX depends on the system format.	
Power consumption	14 W 1.1 A	
Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)	
Ambient operating humidity	10 % to 90 % (no condensation)	
Storage temperature	0 °C to 40 °C (32 °F to 104 °F)	
Storage humidity	10 % to 90 % (no condensation)	
Weight	Approx. 353 g (Approx. 0.78 lbs.)	
Dimensions (W × H × D)	112 × 42 × 166 mm (4-13/32 inches × 1-21/32 inches × 6-17/32 inches) (excluding protrusions)	

Panasonic Entertainment & Communication Co., Ltd.

Web Site: <https://pro-av.panasonic.net/en/>

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